

1636



#22

1600

RAW SEQUENCE LISTING

DATE: 01/21/2003

PATENT APPLICATION: US/09/396,539C

TIME: 16:08:53

Input Set : A:\7682-048 SEQ LISTING.TXT

Output Set: N:\CRF4\01212003\I396539C.raw

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4 <110> APPLICANT: Palese, Peter
5   Garcia-Sastre, Adolfo
7 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS
8   EXPRESSION SYSTEMS AND VACCINES
11 <130> FILE REFERENCE: 7682-048
13 <140> CURRENT APPLICATION NUMBER: 09/396,539C
14 <141> CURRENT FILING DATE: 1999-09-14
16 <150> PRIOR APPLICATION NUMBER: 09/106,377
17 <151> PRIOR FILING DATE: 1998-06-29
19 <150> PRIOR APPLICATION NUMBER: 08/252,508
20 <151> PRIOR FILING DATE: 1994-06-01
22 <160> NUMBER OF SEQ ID NOS: 63
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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27 <211> LENGTH: 21
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Primer for rescue of the mutant NA gene into virus particles
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35 tacgaggaaa tggtcctgtt a                                21
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38 <211> LENGTH: 19
39 <212> TYPE: PRT
40 <213> ORGANISM: Influenza virus
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52 <213> ORGANISM: Influenza virus
54 <220> FEATURE:
55 <223> OTHER INFORMATION: epitope within the NP protein
57 <400> SEQUENCE: 3
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59 1           5           10           15
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 95
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:

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68 <223> OTHER INFORMATION: Primer for construction of plasmid pV-wt
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72 tcaccctgct tttgctgaat tcattcttct gcagg 95
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76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer for construction of plasmid pM-wt
82 <400> SEQUENCE: 5
83 gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaata ga tatgaaaaaa 60
84 cacccttggt tctactgaat tcattcttct gcagg 95
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 68
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
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95 agcttaatac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
96 cttctgca 68
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 60
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Primer for construction of plasmid pV-d5'
106 <400> SEQUENCE: 7
107 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60
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111 <211> LENGTH: 42
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
118 <400> SEQUENCE: 8
119 ccgaattctt aatacgactc actataagta gaaacaaggg tg 42
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 30
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Primer for construction of plasmid pHgaNS
129 <400> SEQUENCE: 9
130 cctctagacg ctcgagagca aaagcaggtg 30
132 <210> SEQ ID NO: 10
133 <211> LENGTH: 15
134 <212> TYPE: RNA

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152 caccugcuu uuacu 15
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156 <212> TYPE: RNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
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168 <213> ORGANISM: Artificial Sequence
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189 <212> TYPE: RNA
190 <213> ORGANISM: Artificial Sequence
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198 <210> SEQ ID NO: 16
199 <211> LENGTH: 15
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence

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 229 caccuuguu uuacu 16
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 232 <211> LENGTH: 16
 233 <212> TYPE: RNA
 234 <213> ORGANISM: Artificial Sequence
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 237 <223> OTHER INFORMATION: Primer for generating point mutations in promoter sequence
 239 <400> SEQUENCE: 19
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 244 <212> TYPE: DNA
 245 <213> ORGANISM: Artificial Sequence
 247 <220> FEATURE:
 248 <223> OTHER INFORMATION: Primer
 250 <400> SEQUENCE: 20
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 252 tataccaccg ttgatataat ccaatcgcat cgtaaa 96
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 255 <211> LENGTH: 96
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Artificial Sequence
 259 <220> FEATURE:
 260 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
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 261 coding sequence of the CAT gene
 263 <400> SEQUENCE: 21
 264 gttcttttacg atgcgattgg gatatatcaa cgggtggtata cccagtgatt tttttctcca 60
 265 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96
 267 <210> SEQ ID NO: 22
 268 <211> LENGTH: 34

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269 <212> TYPE: DNA
 270 <213> ORGANISM: Artificial Sequence
 272 <220> FEATURE:
 273 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
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 274 coding sequence of the CAT gene
 276 <400> SEQUENCE: 22
 277 actgcatga gtggcagggc ggggcgtaat agat 34
 279 <210> SEQ ID NO: 23
 280 <211> LENGTH: 38
 281 <212> TYPE: DNA
 282 <213> ORGANISM: Artificial Sequence
 284 <220> FEATURE:
 285 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1
 287 <400> SEQUENCE: 23
 288 ctatgtctat tacgccccgc cctgccactc atcgcatg 38
 290 <210> SEQ ID NO: 24
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 292 <212> TYPE: DNA
 293 <213> ORGANISM: Artificial Sequence
 295 <220> FEATURE:
 296 <223> OTHER INFORMATION: Primer
 298 <400> SEQUENCE: 24
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 303 <212> TYPE: DNA
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 307 <223> OTHER INFORMATION: Primer for generating flanking sequences of NS RNA to fuse
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 308 coding sequence of the CAT gene
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 321 <400> SEQUENCE: 26
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 327 <212> TYPE: DNA
 328 <213> ORGANISM: Artificial Sequence
 330 <220> FEATURE:
 331 <223> OTHER INFORMATION: Primer for construction of plasmid pIVACAT1
 333 <400> SEQUENCE: 27
 334 gttctttacg atgcgattgg gatatatcaa cgggtggata ccagtgatt tttttctcca 60

VERIFICATION SUMMARY

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